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RADIOACTIVE FALLOUT

A Literature Search

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## RADIOACTIVE FALLOUT

Introduction

This literature search was compiled to fill a specific request. It is being issued in report form because of the general interest in its subject.

Included are 514 references on dispersal and fallout of radioactive debris from nuclear explosions. It supplements the bibliography cited in the 1957 Congressional Fallout Hearings.

The references are divided into three parts: AEC reports, non-AEC reports, and published articles. Report references are arranged alphabetically by corporate author and alphanumerically by report number. Published references are arranged alphabetically by title.

The reports referenced in the first part (AEC reports) can be examined at the AEC depository libraries listed in each issue of Nuclear Science Abstracts. They can also be purchased from the Office of Technical Services (OTS), Department of Commerce, Washington 25, D. C. A full size printed copy is available for the reports having a single price listed; other reports are available as photostat (ph) or microfilm (mf) copies. If no price is shown, a quotation may be obtained by writing OTS. In addition, microcopies of these reports may be available. Requests concerning the purchase of unclassified AEC reports in this form should be directed to the following organizations:

Microcard Foundation  
P. O. Box 2145  
Madison 5, Wisconsin

Readex Microprint Corporation  
100 Fifth Avenue  
New York 11, New York

A few of the non-AEC reports are available either from OTS (see above), from the British Information Service (BIS), 45 Rockefeller Plaza, New York, N. Y., or from the Scientific Document Distribution Office, Atomic Energy of Canada Limited (AECL), Chalk River, Ontario, Canada, but information concerning the availability of non-AEC reports generally will have to be sought from the issuing agencies.

Journals are cited for each of the published references.

AEC Reports

Argonne National Lab., Lemont, Ill.

THE INFLUENCE OF STRONTIUM-90 UPON LIFE SPAN AND NEOPLASMS OF MICE. Miriam P. Finkel, Birute O. Biskis, and Gertrude M. Scribner. 11p. (A/CONF.15/P/911) (UNCLASSIFIED) \$0.50(OTS).

Argonne National Lab., Lemont, Ill.

RADIOLOGICAL PHYSICS DIVISION SEMIANNUAL REPORT FOR JULY THROUGH DECEMBER 1957. Feb. 1958. 230p. (ANL-5829) UNCLASSIFIED \$5.50(OTS).

RADIOLOGICAL PHYSICS DIVISION SEMIANNUAL REPORT FOR JANUARY THROUGH JUNE 1958. Sept. 1958. 143p. (ANL-5919) UNCLASSIFIED \$2.75(OTS).

ON THE STRATOSPHERIC Sr<sup>90</sup> FALLOUT. P. K. Kuroda. Oct. 1958. 40p. (ANL-5920) UNCLASSIFIED \$1.25(OTS).

ENVIRONMENTAL RADIOACTIVITY AT ARGONNE NATIONAL LABORATORY. Report for Year 1957. J. Sedlet. Oct. 1958. 42p. (ANL-5934) UNCLASSIFIED \$1.25(OTS).

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A LIST OF REFERENCES ON CESIUM-137. United States Reports, Articles and Speeches. 1958. 4p. (WASH-1004) UNCLASSIFIED.

A SELECTED LIST OF REFERENCES ON RADIOACTIVE FALLOUT. Alfred W. Klement, Jr., comp. Feb. 14, 1958. 8p. (WASH-1005) UNCLASSIFIED.

Brookhaven National Lab., Upton, N. Y.

EXPOSURE CRITERIA FOR ESTIMATING THE CONSEQUENCES OF A CATASTROPHE IN A NUCLEAR PLANT. J. B. H. Kuper and F. P. Cowan. 12p. (A/CONF.15/P/430) UNCLASSIFIED \$0.50(OTS).

QUARTERLY PROGRESS REPORT FOR JULY 1 - SEPTEMBER 30, 1957. 56p. (BNL-473) UNCLASSIFIED \$1.75(OTS).

THE DISTRIBUTION OF FALLOUT ACTIVITY IN RAINFALL AT BROOKHAVEN NATIONAL LABORATORY, JUNE TO SEPTEMBER 1957. F. P. Cowan and J. Steimers. Mar. 1958. 9p. (BNL-496) UNCLASSIFIED \$0.50(OTS).

THE ACCUMULATION OF RADIOACTIVE FALLOUT ON TYPICAL MATERIALS OF CONSTRUCTION. F. P. Cowan. Mar. 1958. 10p. (BNL-497) UNCLASSIFIED \$0.50(OTS).

MARCH 1957 MEDICAL SURVEY OF RONGELAP AND UTIRIK PEOPLE THREE YEARS AFTER EXPOSURE TO RADIOACTIVE FALLOUT. Robert A. Conard, Leo M. Meyer, J. Edward Rall, Austin Lowery, Sven A. Bach, Branford Cannon, Edwin L. Carter, Maynard Eicher, and Hyman Hechter. June 1958. 29p. (BNL-501) UNCLASSIFIED \$1.00(OTS).

FALLOUT, CIVIL DEFENSE AND EFFECTS OF RADIATION ON MAN. Eugene P. Cronkite. June 5, 1957. 10p. (BNL-3244) UNCLASSIFIED.

FALLOUT RADIATION: EFFECTS ON THE SKIN. Robert A. Conard, Eugene P. Cronkite, and Victor P. Bond. July 22, 1957. 28p. (BNL-3298) UNCLASSIFIED.

Brookhaven National Lab., Upton, N. Y.

ATOMIC BOMB FALLOUT AND ITS IMPLICATIONS. Victor P. Bond. Nov. 5, 1957. 13p.  
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STRONTIUM 90 - BIBLIOGRAPHY. M. Comstock. Dec. 31, 1957. 10p. (M-6472)  
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California. Univ., Berkeley. Crocker Lab. and California. Univ., Berkeley.  
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Patricia Durbin and Hardin Jones. 4p. (A/CONF.15/P/887; UCRL-8083)  
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California. Univ., Berkeley. Radiation Lab.

METABOLIC STUDIES WITH STRONTIUM-90 IN THE RHESUS MONKEY. Preliminary Report.  
Patricia W. Durbin, Marshall W. Parrott, Marilyn H. Williams, Muriel E.  
Johnston, C. Willet Asling, and Joseph G. Hamilton. Jan. 7, 1957. 26p.  
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HUMAN AND CATTLE THYROID RADIOACTIVITY ASSOCIATED WITH FALLOUT: OCTOBER 1955  
TO OCTOBER 1956. Margaret R. White. Mar. 1, 1957. 15p. (UCRL-3703)  
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BIOLOGY AND MEDICINE QUARTERLY REPORT FOR JULY, AUGUST, SEPTEMBER 1957. Oct.  
14, 1957. 19p. (UCRL-8031) UNCLASSIFIED \$0.75(OTS).

BIOLOGY AND MEDICINE SEMIANNUAL REPORT FOR OCTOBER 1957 THROUGH MARCH 1958.  
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FALLOUT AND NATURAL BACKGROUND IN THE SAN FRANCISCO BAY AREA. H. Wade  
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QUARTERLY PROGRESS REPORT FOR PERIOD ENDING SEPTEMBER 30, 1956. Oct. 1, 1956. Decl. Mar. 6, 1957. 148p. (UCLA-379) UNCLASSIFIED \$22.80(ph OTS); \$7.20(mf OTS).

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THE EFFECT OF PACIFIC WEAPONS TESTING ON BACKGROUND ACTIVITIES IN THE STATE OF CALIFORNIA. L. Baurmash, J. W. Neel, and R. F. Butts. May 14, 1957. 33p. (UCLA-388) UNCLASSIFIED \$6.30(ph OTS); \$3.00(mf OTS).

SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD ENDING JUNE 30, 1957. July 10, 1957. 70p. (UCLA-399) UNCLASSIFIED.

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E. M. Romney, J. W. Neel, G. M. LeRoy, A. J. Steen, and K. H. Larson.  
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BY ANALYSIS OF RESULTS FROM FIELD OPERATIONS AND CONTROLLED INHALATION STUDIES  
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Chicago. Univ. Enrico Fermi Inst. for Nuclear Studies.

STRONTIUM-90 CONCENTRATION DATA FOR BIOLOGICAL MATERIALS, SOILS, WATERS, AND  
AIR FILTERS. Project Sunshine Bulletin No. 11. E. A. Martell. Dec. 1, 1955.  
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UNCLASSIFIED \$0.40(OTS).

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Columbia Univ. New York. Lamont Geological Observatory.

STRONTIUM-90 IN FOOD. J. L. Culp, R. Slakter, and A. R. Schulert. 1958. 22p.  
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DETECTION AND MEASUREMENT OF RADIOACTIVE PARTICULATES. T. S. Chapman. Dec. 5,  
1957. 16p. (RFP-92) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

General Electric Co. Aircraft Nuclear Propulsion Dept., Cincinnati.

METHOD OF ESTIMATING DOSAGE TO GROUND FROM A RADIOACTIVE CLOUD. C. C. Gamerts-  
felder and R. L. Waterfield. Oct. 1955. Published Jan. 6, 1958. 27p.  
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General Electric Co. Hanford Atomic Products Operation, Richland, Wash.

WIND PICKUP OF RADIOACTIVE PARTICLES FROM THE GROUND. John W. Healy and James J. Fuquay. 11p. (A/CONF.15/P/391) UNCLASSIFIED \$0.50(OTS).

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RADIOSTRONTIUM-CALCIUM RELATIONS IN PLANTS AND ANIMALS. H. A. Kornberg. 12p. (A/CONF.15/P/1029) UNCLASSIFIED \$0.50(OTS).

GAMMA-RAY SPECTROMETRIC SYSTEMS OF ANALYSIS. R. W. Perkins. 37p. (A/CONF.15/P/2377) UNCLASSIFIED \$0.50(OTS).

RADIOCHEMICAL ANALYSIS OF BRAVO SHOT SOIL SAMPLES. C. W. Thomas. Jan. 15, 1957. 18p. (HW-38987) UNCLASSIFIED \$0.20(OTS).

METEOROLOGY AS RELATED TO WASTE DISPOSAL AND WEAPONS TESTS. J. J. Fuquay. Jan. 15, 1957. 39p. (HW-47721 A) UNCLASSIFIED \$1.00(OTS).

HANFORD BIOLOGY RESEARCH ANNUAL REPORT FOR 1957. Jan. 10, 1958. 227p. (HW-53500) UNCLASSIFIED \$3.50(OTS).

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RESEARCH AND DEVELOPMENT ACTIVITIES IN THE FIELD OF RADIOLOGICAL SCIENCES  
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UPPER ATMOSPHERE MONITORING PROGRAM - PHASES I AND II. Progress Report No. 2 Covering Period April 1, 1957 thru October 1, 1957. (Report No. 1798). Sidney Stern, William Zeller, Alfred Scheckman, Robley Stuart, and Sam Jones. Nov. 11, 1957. Project 89125. (AECU-3681) UNCLASSIFIED \$9.30(ph OTS); \$3.60(mf OTS).

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Idaho Operations Office. Health and Safety Div., AEC and Tennessee. Univ., Memphis. Coll. of Medicine.

BIOLOGICAL MONITORING OF RECENT AIR-BORNE FISSION PRODUCTS. N. R. French and L. Van Middleworth. 7p. (A/CONF.15/P/2497) UNCLASSIFIED \$0.50(OTS).

Illinois Inst. of Tech., Chicago. Armour Research Foundation.

EFFICIENCY OF SCAVENGING DEVICES USED IN DETERMINING FALLOUT. Progress Report No. 5 for February 1, to March 15, 1957. John Rosinski. 14p. ARF Project C-082. (AECU-3435) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

EFFICIENCY OF SCAVENGING DEVICES USED IN DETERMINING FALLOUT. Scientific Report No. 1. (Report No. 4). Jan Rosinski. Jan. 25, 1957. 130p. ARF Project No. C-082. (AECU-3486) UNCLASSIFIED \$3.25(OTS).

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PRELIMINARY STUDIES OF SCAVENGING SYSTEMS RELATED TO RADIOACTIVE FALLOUT. Report No. 3 (Letter Report) for August 1 to October 1, 1958. John D. Stockham. Oct. 22, 1958. 7p. ARF Project C 127. (AECU-3880) UNCLASSIFIED \$1.80(ph OTS); \$1.80(mf OTS).

PRELIMINARY STUDIES OF SCAVENGING SYSTEMS RELATED TO RADIOACTIVE FALLOUT. Report No. 1 (Letter Report) for April 1 - June 1, 1958. J. Stockham and John Rosinski. June 12, 1958. 5p. (M-6624) UNCLASSIFIED.

PRELIMINARY STUDIES OF SCAVENGING SYSTEMS RELATED TO RADIOACTIVE FALLOUT. (Letter Report No. 2) for June 1 - August 1, 1958. J. Stockham and J. Rosinski. Aug. 7, 1958. 6p. (M-6677) UNCLASSIFIED.

Knolls Atomic Power Lab., Schenectady, N. Y.

RADIOLOGICAL DEVELOPMENT ACTIVITIES IN THE HEALTH PHYSICS UNIT. Semiannual Progress Report for July - December 1955. L. J. Cherubin and J. J. Fitzgerald. Changed from OFFICIAL USE ONLY June 3, 1957. 52p. (KAPL-1572) UNCLASSIFIED \$0.45(OTS).

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MECHANISMS OF FRACTIONATION. J. L. Magee. Nov. 16, 1953. Decl. Nov. 7, 1958. 15p. (LADC-2840) UNCLASSIFIED.

New York Operations Office. Health and Safety Lab., AEC.

EXTERNAL ENVIRONMENTAL RADIATION MEASUREMENTS IN THE UNITED STATES. L. R. Solon, W. M. Lowder, A. V. Zila, H. D. LeVine, H. Blatz, and M. Eisenbud. 16p. (A/CONF.15/P/740) UNCLASSIFIED \$0.50(OTS).

A PROCEDURE FOR THE ACID EXTRACTION AND ANALYSIS OF STRONTIUM 90 IN SOIL. Gerald H. Hamada and Edward P. Hardy, Jr.; WITH A RECOMMENDED METHOD FOR SOIL SAMPLING. Lyle T. Alexander. Apr. 7, 1958. 32p. (HASL-33) UNCLASSIFIED \$6.30(ph OTS); \$3.00(mf OTS).

ENVIRONMENTAL CONTAMINATION FROM WEAPON TESTS. Oct. 1958. 370p. (HASL-42) UNCLASSIFIED \$3.50(OTS).

Included in this report are NYO-4753(Suppl. 2); A/AC.82/G/R; AERE-HP/R-2353; AERE-HP/R-2354; AERE-HP/M-126; and NYO-4889.

STRONTIUM PROGRAM QUARTERLY SUMMARY REPORT. Edward P. Hardy, Jr. and Stanley Klein. Nov. 19, 1958. (HASL-51) UNCLASSIFIED.

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HASL AERIAL SURVEY SYSTEM. M. E. Cassidy, R. T. Graveson, and H. D. LeVine. July 29, 1957. 58p. (NYO-2071) UNCLASSIFIED \$1.75(OTS).

ANNOTATED BIBLIOGRAPHY ON LONG RANGE EFFECTS OF FALLOUT FROM NUCLEAR EXPLOSIONS. Allen G. Hoard. Nov. 1957. 23p. (NYO-4753(Suppl.2)) UNCLASSIFIED \$0.75(OTS).

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METHOD OF CALCULATING INFINITY GAMMA DOSE FROM BETA MEASUREMENTS ON GUMMED FILM. Naomi A. Hallden and John H. Harley. Apr. 15, 1957. 37p. (NYO-4858) UNCLASSIFIED \$1.00(OTS).

SUMMARY OF ANALYTICAL RESULTS FROM THE HASL STRONTIUM PROGRAM, JULY THROUGH DECEMBER 1956. John H. Harley, Edward P. Hardy, Jr., Ira B. Whitney, and Merrill Eisenbud. Mar. 15, 1957. 44p. (NYO-4862) UNCLASSIFIED \$1.25(OTS).

A STUDY OF FALLOUT IN RAINFALL COLLECTIONS FROM MARCH THROUGH JULY 1956. William R. Collins, Jr. and Naomi A. Hallden. Apr. 30, 1957. 27p. (NYO-4859) UNCLASSIFIED \$4.80(ph OTS); \$2.70(mf OTS).

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Oak Ridge National Lab., Tenn.

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S. I. Auerbach and D. A. Crossley, Jr. 14p. (A/CONF.15/P/401) UNCLASSIFIED  
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T. E. VanZandt. Mar. 1, 1957. 10p. (AECU-3494; TM-118-57-51) UNCLASSIFIED  
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Jack W. Reed. Feb. 1957. 23p. (SC-4073) UNCLASSIFIED \$4.80(ph OTS);  
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PROGRAM FOR COMPUTING PROBABILITIES OF FALLOUT FROM A LARGE-SCALE THERMONUCLEAR  
ATTACK. W. W. Bledsoe. Apr. 29, 1957. 64p. (SC-4109(TR)) UNCLASSIFIED.

DISPERSAL OF FALLOUT BY MEANS OF A HEAT SOURCE. Kenneth L. Shipley. Mar. 1958.  
20p. (SC-4153(TR)) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

FALLOUT FROM A HYPOTHETICAL 1-MT SURFACE BURST AT ALBUQUERQUE. L. J. Vortman.  
Mar. 10, 1957. 7p. (SCTM-80-57(51); M-6196)) UNCLASSIFIED \$1.80(ph OTS);  
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Utah. Univ., Salt Lake City. Radiobiology Lab.

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\$27.30(ph OTS); \$8.10(mf OTS).

SEMI-ANNUAL PROGRESS REPORT. Sept. 30, 1957. 129p. (AECU-3583) UNCLASSIFIED  
\$19.80(ph OTS); \$6.30(mf OTS).

ANNUAL PROGRESS REPORT. C. N. Stover, Jr., ed. Mar. 31, 1958. 192p. (COO-215)  
UNCLASSIFIED \$28.80(ph OTS); \$8.40(mf OTS).

SEMI-ANNUAL PROGRESS REPORT. C. N. Stover, Jr., ed. Sept. 30, 1958. 184p.  
(COO-217) \$28.80(ph OTS); \$8.40(mf OTS).

Washington. Univ., Seattle. Applied Fisheries Lab.

SURVEY OF RADIOACTIVITY IN THE SEA AND IN PELAGIC MARINE LIFE WEST OF THE  
MARSHALL ISLANDS, SEPTEMBER 1-20, 1956. Allyn H. Seymour, Edward E. Held,  
Frank G. Lowman, John R. Donaldson, and Dorothy J. South. Mar. 15, 1957. 63p.  
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LAND CRABS AND RADIOACTIVE FALLOUT AT ENIWETOK ATOLL. Edward E. Held. May 27, 1957. 39p. (UWFL-50) UNCLASSIFIED \$1.25(OTS).

THE OCCURRENCE AND DISTRIBUTION OF RADIOACTIVE NON-FISSION PRODUCTS IN PLANTS AND ANIMALS OF THE PACIFIC PROVING GROUND. Frank G. Lowman, Ralph F. Palumbo, and Dorothy J. South. June 12, 1957. 67p. (UWFL-51) UNCLASSIFIED \$2.00(OTS).

RADIOACTIVITY OF INVERTEBRATES AND OTHER ORGANISMS AT ENIWETOK ATOLL DURING 1954-55. Kelshaw Bonham. Jan. 6, 1958. 55p. (UWFL-53) UNCLASSIFIED \$1.50(OTS).

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